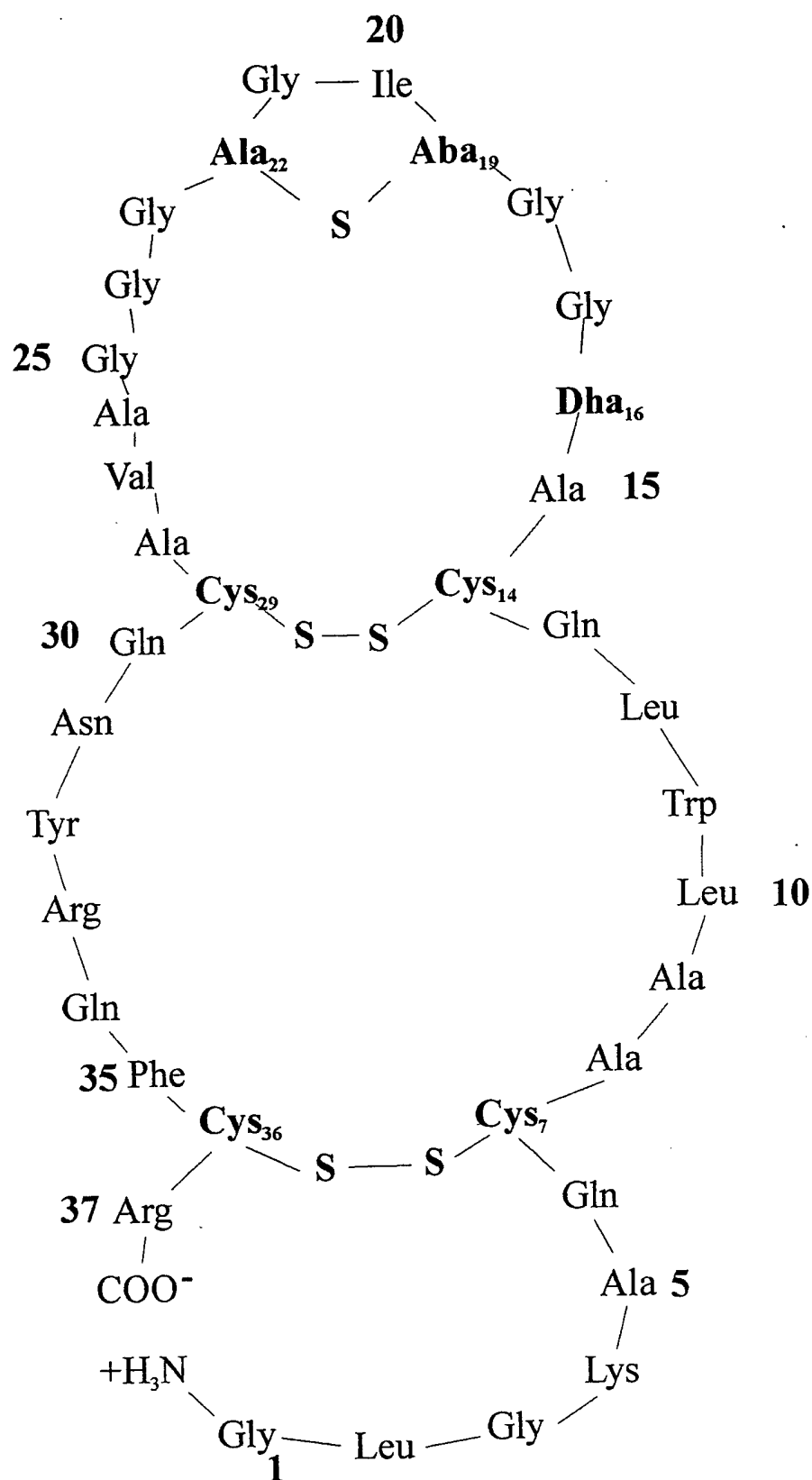


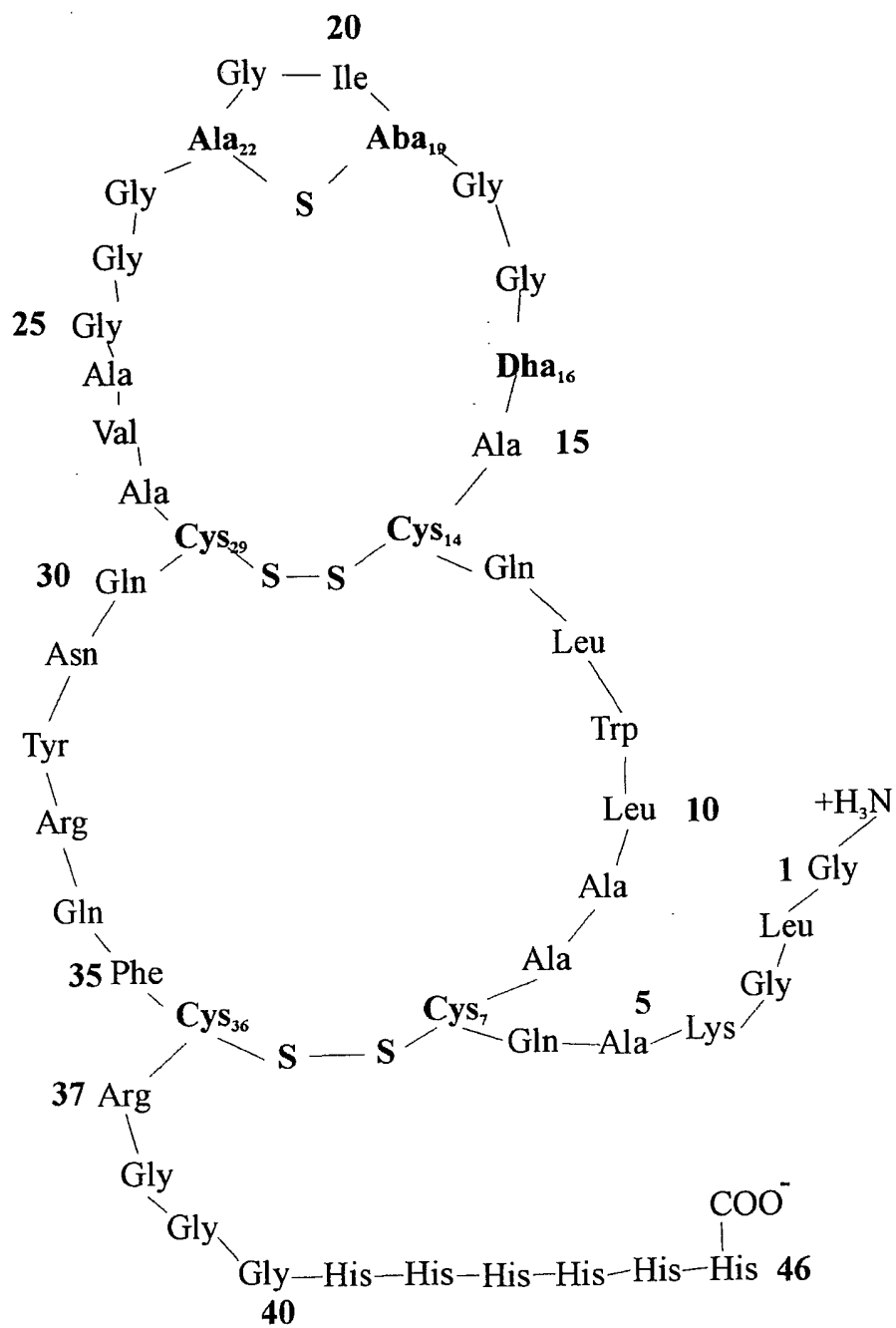
106290 DE046860



Sublancin 168

Figure 1

106290-062901



Sublancin-His tag **Figure 2**

EcoRI

pTZ sequence <-----GAATTCGGCTCTAAAGCGAT

TCTGAGAGCAGTTTCTTATACACCAGCAGGAACGCACTTCAACGAGCTGGATTAAACAGGTGGGCATAAG
AGTTAAGATAAAATTTAACTTATATAACACATCGCTTAAAGTTTTTTTGTTTTAAAAACTTAAAAACAT
GGTAAAATTATATAAAAACATAAGAAAGAGTGATTATATGGAATATGTAGTTATGATAATCATTTTATTA
GCACTTTTCTTTATTTTACTGTTTTCTTAAATACACGTTATAGTTTTGATGAAAAATGCTTAGTCTTAA
AATTTGGTTTATCTAAAACAGAAATTCGAATTAATCAAATAGTTAGTATTAAAGAGTCAGACAAGTATGG
AGTTGCAGATAATATCGATTATAAAATTGGTATGCCATATGCTCAACCAGATAGAATTGTTATTGAAACT
ACAAATAAGCGTTTTCTAGTTTTTTTAAATGGAGCTCAACAATTTATTCAAAGTATAAAAGGGTTAGTG
TTTGAACATAAAAAAGTACCTTCTTACAATAGAAGGTACTTTTTTGTATCTATAATTATTAAAAATTTAC
CTAAATTTTTATCATTATTAATTCAAATAAATCCATAATAGTCAATTTTATTTAGTGTATTACAACCAA

Bam HI (~900 bp) Bam HI

TTC GGATCC <----cat-----> GGATTCGTGTATTACAACCAATTC TGTTTATTGATAGGTAATAAA
GTTTTTTTTCTATGATTTATGAACAAGTTTCCTTATAATTTTCAA
AAAAATAAAAAATATGGTTGAATTTAGATTTATCTTCTTTATATTAAAAAATGTAATCCGGATTGCAA

| Sublancin leader -----> Xho I

ACAAATGGGGAGGTTTTACAA ATGGAAAAGCTATTTAAAGAAGTTAAACTCGAGGAACTCGAAAACCAA

| Sun A ----->

AAGGTAGT GGATTAGGAAAAGCTCAGTGTGCTGCGTTGTGGCTACAATGTGCTAGTGGCGGTACAATTGG

Pst I |

TTGTGGTGGCGGAGCTGTTGCTTGTCAAACTATCGTCAATTCTGCAGA TAAACATTTGTAGAGGGAAT

ATTTTAAATATTCCCTCATATTTAAAGCGGGGATTGAAATTGAATAAGAAAAAGAAATATGTTTACTACTA
AACAGTTTAATAGTCATGATTGTGGACTAGCTTGTATCTCGTCAATTTTAAAGTTTCATAACCTTAACTA
TGGAATTGATTTCTTACTAGACCTAATTGGGGATAAGGAAGGCTATAGTTTAAAGAGACTTAATTGTTATT
TTTAAGAAGATGGGGATAAAAACTAGGCCACTTGAATTGCAAGAAAATAAGACATTCGAAGCCCTAAAAC
AAATAAAGCTCCCTTGTATAGCTTTGTTAGAAGGGGAGGAATATGGACATTACATAACAATATACGAAAT
TAGAAATAACTATTTACTTGTAGTGATCCTGATAAAGACAAAATAACTAAAATAAAAAAGAGGATTTT
GAAAGTAAATTCACAACTTTATATTAGAAATTGACAAAGAGTCAATTCCTGAAAAAGAAAAAGATCAAA
AAAAACATTCTTACTTTTTTAAGGACATACTTTTATAGAAATAAATTGATCGTTTTTGTGATTTTATTGAC
TTCCTTGTTCGTTGTGGGTCTTGCTGAAGCTT----->pTZ sequence

HindIII

Figure 3

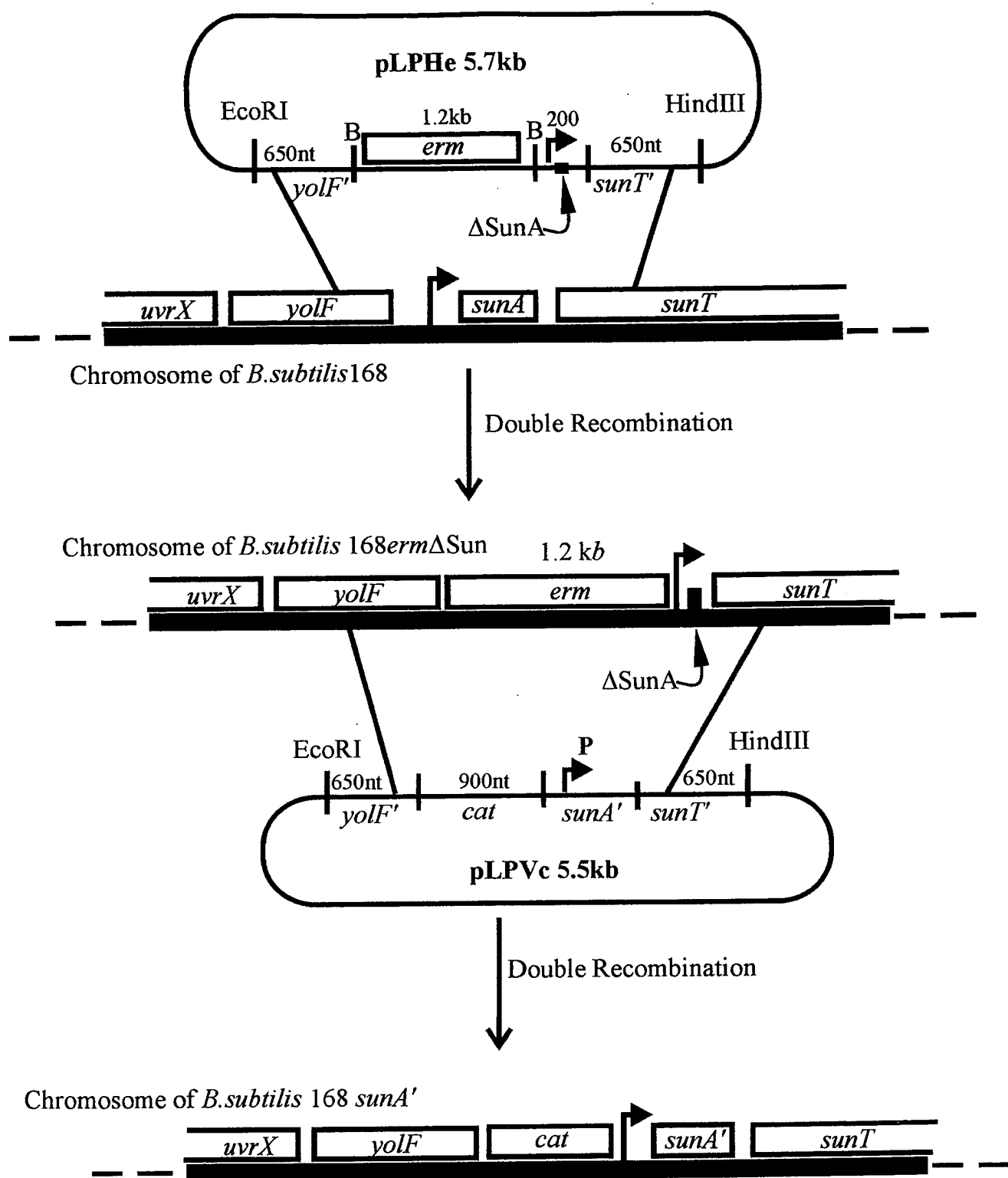
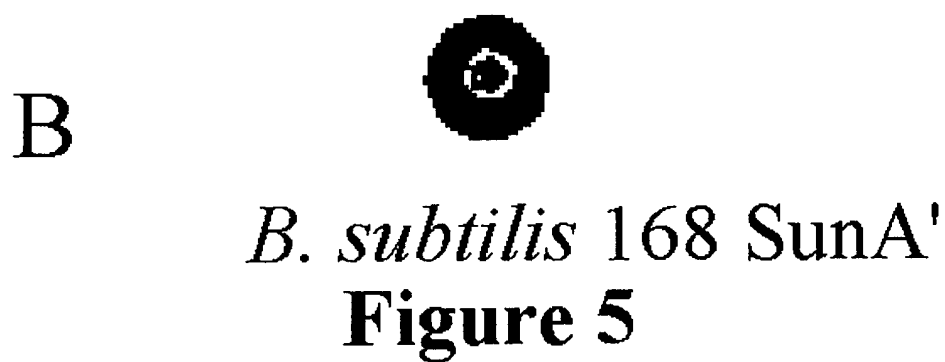
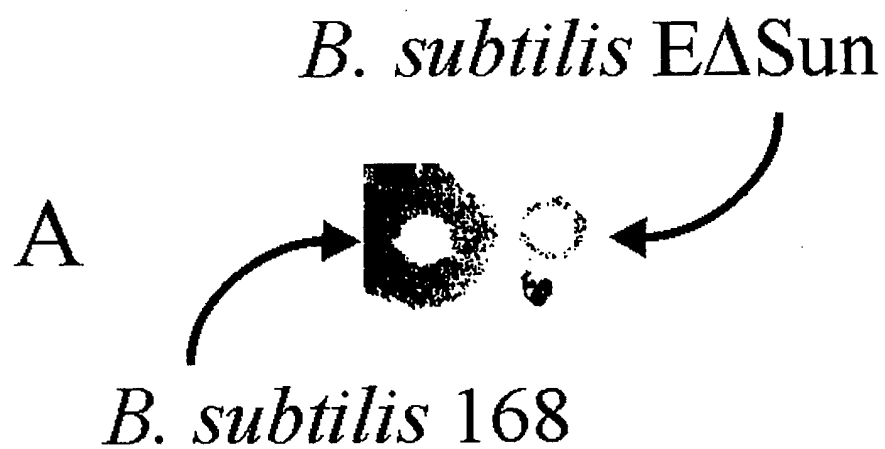


Figure 4

09894030-062901



← pLPcat
 TTGCAAACAAATGGGGAGGTTTTACAA ATGGAAAGCTATTTAAAGAAG
 Sublancin leader→
 MetGluLysleuPheLysGluV

 XhoI
 TTAAACTCGAGGAACTCGAAAACCAAAAGGTAGT GGATTAGGAAAAGC
 sublancin prep-
 AllLysLeuGluGluLeuGluAsnGluLysGlySer GlyLeuGlyLysAl

 tide→
 TCAGTGTGCTGCGTTGTGGCTACAATGTGCTAGTGGCGGTACAATTGGTT
 aGlnCysAlaAlaLeuTrpLeuGlnCysAlaSerGlyGlyThrIleGlyC

 KasI
 GTGGTGGCGGCGCCGTTGCTTGTCAAACTATCGTCAATTCTGTAGAGGT
 ysGlyGlyGlyAlaValAlaCysGlnAsnTyrArgGlnPheCysArgGly

 His Tag→ Stop PstI
 GGTGGTCATCATCATCATCATCATCATTAGAGTCCTGCAGATAAAACA
 GlyGlyHisHisHisHisHisHisHis * pLPcat →

Figure 6